

Active Risk Allocation

Portfolio optimisation

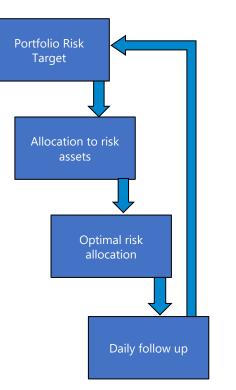
Independent | Transparent | Disciplined

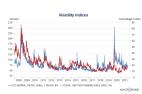


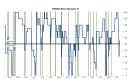
Active Risk Allocation Summary of process

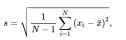
Decide on desired portfolio volatility band

- 3.5-5%, 6-8% or 9-11% target
- Depending on model input
- Allocate between risk assets and non-risk assets
 - Between 0 and 100% of portfolio may be allocated to risk assets
 - Depending on model input
- Calculate portfolio allocation
 - Allocating assets in a way that no asset class gives a too large risk contribution (almost Risk Parity)
 - Respecting overall volatility target
 - Respecting overall allocation target
- Daily follow up
 - Daily calculation of expected portfolio volatility
 - Daily supervision of OMRI and portfolio risk allocation
 - Corrective action if necessary





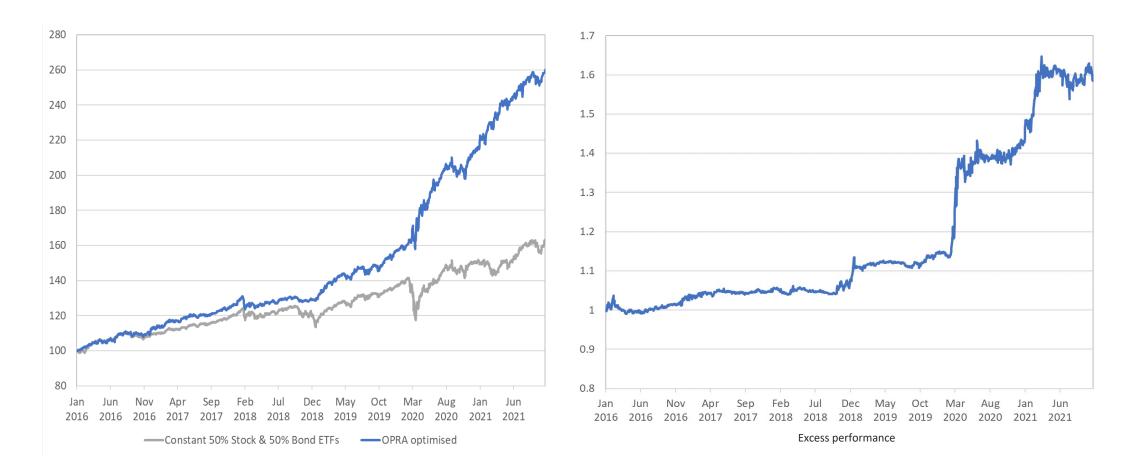








ARA sample Portfolio; 50% world stock ETF / 50% bond ETF



A simplified example of value added by just one optimiser (OPRA indicator) No other other optimisers, no other constraints, daily rebalanced



IR Medium risk model portfolio							
Name	Asset	Class	Min	Mid	Max	ETF Proxy	ETF Name
IR Basis			20	25	35	Composite	Composite ETF
		Aktier-EU	50	75	100	XSX6 DE	db x-tracker Stoxx Europe 600
		Bonds-EU GOV	50		100	XGLE DE	Xtrackers II Eurozone Government Bond
		Bonds-DK MBS	50		100	Nyk dmb Compo	os <u>Nykredit Danish Mortgage Bond Index</u>
		Bonds-HY	20		40	IHYG DE	iShares € High Yield Corp Bond
		Cash	0	25	50	Cash	Money market
IR Favoritter/IR Danske Aktier	r	Aktier-DK	15	25	35	BIKF DC	Danske Invest Index
			50		100	BIKF DC	Danske Invest Index
IR Vækstlande	63.8	Aktier-GEM	15	20	30	BRIC LN	iShares BRIC 50 \$ (Dist)
IR Erhverv		Bonds-HY	10	15	20	IHYG DE	iShares € High Yield Corp Bond
			50		100	IHYG DE	iShares € High Yield Corp Bond
			50		100	HYG US	iShares iBoxx \$ High Yield Corp Bond
IR Højrente		Bonds-HY	10	15	20	EMBE LN	iShares J.P. Morgan \$ EM Bond EUR Hedged
Danske obligationer	36.3	Bonds-DK	0	0	10	Nyk dmb Compo	os <u>Nykredit Danish Mortgage Bond Index</u>
	100			100			

Defining the benchmark is necessary to evaluate quality of investment management and a mathematic imperative for a systematic investment optimisation process.

IR portfolio to follow the forwarded ARA script with ALL optimisers and as a rule monthly rebalancing.



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